

## **B.Ed.**

### **Programme objectives**

- Po1) To develop Chotanagpur region educationally.
- Po2) To empower students with pedagogical skills and competencies.
- Po3) To make students aware of contemporary issues of regional, national and international concerns.
- Po4) To render unselfish services as per demand of the community.
- Po5) To inculcate social, moral and cultural values in the students.
- Po6) To promote feelings of nationalism and universal brotherhood.
- Po7) To provide equal opportunities to both the genders.
- Po8) To spread awareness regarding environmental issues.

### **PSO of B.Ed.**

- Pso1) Understand the importance of education for national change and social change.
- Pso2) Acquaint with needs of learner and learning environment.
- Pso3) Learn various approaches of classroom and school management.
- Pso4) Apply various teaching approaches and strategies in classroom situations.
- Pso5) Understand the nature of assessment and evaluation and its importance in teaching learning process.
- Pso6) Learn the principles of curriculum construction.
- Pso7) Sensitize towards needs of special children and understand importance of inclusion.
- Pso8) Enhance professional competencies.
- Pso9) Develop insight to teach different pedagogical subjects.
- Pso10) Understand the significance of fine arts and performing arts at school level education.

### **COS Course outcomes**

### **Paper –I Education for national development and social change**

Co1) Describe aims of education.

Co2) Discuss the impact of caste, religion, language and region on education.

Co3) State role of education in bringing social change.

Co4) Discuss contribution of various educational thoughts and thinkers.

Co5) Analyse scenario of education in pre and post independent India.

### **Paper-II Learner and Learning**

Co1) Illustrate the importance of educational psychology for teacher and learner.

Co2) State principles of growth and development.

Co3) Explain individual difference in learners.

Co4) Describe different theories of learning.

Co5) Discuss role of motivation in learning.

Co6) Illustrate the role of mental health in personality development.

### **EPC-I Language across curriculum**

Co1) Illustrate nature and function of language.

Co2) Describe activities which promote language proficiency.

Co3) Explain importance of communication and list its barriers.

Co4) Throw light on role of multimedia in communication.

### **EPC-II Art and Aesthetics**

Co1) Write aims and objectives of Art.

Co2) Briefly describe about performing Art.

Co3) Classify fine art and state its importance

### **EPC-III Health And Physical Education**

Co1) Describe importance of health education.

Co2) Define balanced diet and write about nutritional deficiencies.

Co3) Discuss causes of life style diseases.

Co4) Throw light on importance of Yoga, games and sports in our life.

## **SEMESTER – II**

### **Paper –III Classroom Organization and School Management**

- Co1) Explain different components of school management.
- Co2) Describe the factors playing important role in classroom management.
- Co3) Throw light on functions of various educational bodies.
- Co4) Discuss role of educational leadership in the school.
- Co5) Write about essential physical facilities in a school.

### **Paper IV (A) Pedagogy of Subjects**

#### **Language**

- Co1) Describe nature and system of language.
- Co2) Discuss significance of language and problems faced to acquire it.
- Co3) Explain different methods of language teaching.
- Co4) Write problems faced by learners in acquisition of language.
- Co5) Write about skills required in language learning.

#### **Science/Maths**

- Co1) Write about aims and objectives of science/Maths teaching.
- Co2) Discuss various methods/approaches in science/Maths teaching.
- Co3) Describe utility of learning resources.
- Co4) Write about evaluation methods in science/Maths teaching.
- Co5) Content analysis

#### **Social Science (History/Civics/Geography)**

- Co1) Objectives of social science teaching
- Co2) Discuss various methods used in social science teaching
- Co3) Explain utility of learning resources.

Co4) Analyse content/ current affairs.

### **EPC-IV ICT**

Co1) Write the History and evolution of computer system.

Co2) Describe computer hardware and its types.

Co3) Prepare a resume in Ms Word.

Co4) Edit/correct the given text in Ms Word.

Co5) Download material from internet of your subject.

Co6) Discuss operating system and its types.

Co7) Prepare Ms Excel sheet of the given data.

Co8) Prepare a Ms Power Point presentation from any topic of your subject.

### **SEMESTER - III**

#### **Paper –V Teaching Approaches & Strategies**

Co1) Describe maxims of teaching and factors affecting it.

Co2) Explain different phases of teaching.

Co3) Discuss importance of microteaching and different approaches of teaching.

Co4) Describe various approaches of individualized learning.

Co5) Discuss importance of professional development programmes for teacher.

#### **Paper IV (B)Pedagogy of Subjects**

##### **Language (English/Hindi)**

Co1) Write aims and objectives of language teaching.

Co2) Describe different steps of lesson planning.

Co3) Explain methods of evaluation in language teaching.

Co4) State utility of learning resources in language teaching.

Co5) Construct question paper of language.

##### **Science/Maths**

- Co1) Describe different steps of lesson planning.
- Co2) Discuss different types of evaluation in science.
- Co3) Construct question paper of Science/Maths.
- Co4) Write different steps for planning of lab. Activities.
- Co5) Analyse curriculum/text books of Science/Maths.
- Co6) Preparation for lab. Activities.

### **Social Science (History/Civics/Geography)**

- Co1) Describe difference steps of lesson planning.
- Co2) Construct a question paper.
- Co3) Content analysis of history/geography/civics book.
- Co4) Write about curriculum reforms.
- Co5) Analyse role of social science in national and international understanding.
- Co6) Discuss importance of professional development of social science teacher.

### **SEMESTER – IV**

#### **Paper – VI Assessment and Evaluation**

- Co1) Explain characteristics and purpose of evaluation.
- Co2) Discuss styles of writing instructional objectives.
- Co3) Describe characteristics of standardized tests.
- Co4) Write about major tools of evaluation and their uses.
- Co5) Discuss characteristics of a good test.
- Co6) Apply elementary statistical in educational evaluation.

#### **Paper –VII Knowledge And Curriculum**

- Co1) Describe different approaches of knowledge transaction.
- Co2) Discuss components and types of curriculum.
- Co3) Write principles of curriculum construction.

Co4) Throw light on curriculum reforms.

Co5) Analyse different curriculum.

### **Paper – VIII Creating and inclusive School**

Co1) Explain factors affecting special education.

Co2) Classify children with special needs based on their characteristics.

Co3) Write about various national policies and international conventions for inclusive educations.

Co4) Describe various models of inclusive education.

Co5) Discuss role of parents, community, peers and teachers in inclusion.

### **EPC- V Art And Aesthetics**

Co1) Illustrate application of arts in academics.

Co2) Write about decorative arts

Co3) Describe uses of various musical instruments and contribution of artists playing them.

Co4) Identify folk instruments and regional performing art forms of India.

### **BJMC**

**Course Outcomes** : To make journalist, film makers and such Media professionals

Core 1: History of Media in India

Core 2: Photojournalism and New Age Media, Internet

Core 3: Imp Theories that describe what Communication is and how it functions

Core 4: Provides hands-on training for writing in newspapers Core

Core 5: Learns of basics of Video, like how to use a video camera

Core 6: Learns basics of Sound

Core 7: Taught editing for print media and electronic media editing

Core 8: Advertisement and PR world, discussed and taught about

Core 9: Film and Television programmes—appreciation course

Core 10: Taught about Radio, Television Media

Core 11: Student produces a Television programme, learns different aspects of television production

Core 12: Student conceives a film, makes a script and produces a film with sound and video editing

Core 13: Student is sent for industry training with a firm

Core 14: Student is given teaching of media laws and research methods with practical

DSE: Four papers of Discipline Specific subjects—students are given papers on supportive areas whereby they learn how to write scripts, different aspects of sound etc

## **Botany**

### **Course Outcomes Core Course I: MICROBIOLOGY AND PHYCOLOGY**

Introduction to the microbial world of virus, bacteria and algae, their occurrence, morphology, life cycle, nutrition, growth and economic importance.

### **Core Course II: BIOMOLECULES AND CELL BIOLOGY**

Basic knowledge of all biomolecules, their nomenclature, classification and structure. Structure and function of cell and cell organelles, and cell division.

### **Core Course III: MYCOLOGY AND PHYTOPATHOLOGY**

Introduction and characteristics of different classes of fungi with respect to thallus organisation, cell wall composition, nutrition, affinities with plants and animals, and viral diseases.

### **Core Course IV: ARCHEGONIATE**

General features, adaptations, morphology and evolutionary trends of Bryophytes, Pteridophytes and Gymnosperms.

### **Core Course V: ANATOMY OF ANGIOSPERMS**

Introductions and scope of plant anatomy including structure of tissues, stem, leaf, roots, wood and vascular system. Basic knowledge of adaptive, protective and secretory systems.

#### **Core Course VI: ECONOMIC BOTANY**

Origin of cultivated plants and study of cereals, legumes, sugars & starches, spices, beverages, oils & fats, essential oils, natural rubber, drug yielding plants, timber plants and fibres with respect to their general account, morphology and economic importance.

#### **Core Course VII: GENETICS**

Mendel's theory of gene inheritance which ranges from classical to modern concept of gene and chromosomal abbreviations.

#### **Core Course VIII: MOLECULAR BIOLOGY**

Historical perspective, structures and types of nucleic acids. Replication, transcription and translation of DNA in prokaryotes and eukaryotes.

#### **Core Course IX: PLANT ECOLOGY AND PHYTOGEOGRAPHY**

Interrelationships between living world and the environment. Components of the environment and ecosystem. Continental drift, description of terrestrial biomes and phytogeographical division and vegetation of India.

#### **Core Course X: PLANT SYSTEMATICS**

Plant identification, classification, nomenclature, biosystematics, modern taxonomy and phylogeny of angiosperms.

#### **Core Course XI: REPRODUCTIVE BIOLOGY OF ANGIOSPERMS**

Basic structures, types and functions of anther, pollen, ovule, endosperm, embryo and seed. Various types and adaptations of pollination and fertilization and self incompatibility in plants.

#### **Core Course XII: PLANT PHYSIOLOGY**



Plant water relations, nutrients and their uptake. Translocation in the phloem, growth regulators, physiology of flowering and phytochromes.

### **Core Course XIII: PLANT METABOLISM**

Carbon assimilation and oxidation, metabolism of carbohydrates, lipids and nitrogen. ATP synthesis and mechanisms of signal transduction.

### **Core Course IV: PLANT BIOTECHNOLOGY**

Plant tissue culture, recombinant DNA technology, cloning vectors and applications of biotechnology, transgenic crops and genetically engineered plant products.

### **Skill Enhancement Course I: MUSHROOM CULTURE TECHNOLOGY**

Introduction, history, types, storage. Nutrition and cultivation technology of Mushrooms. Research centers, exports and marketing in India and import.

### **Skill Enhancement Course II: ETHANOBOTANY**

Introduction, concept, scope and objectives of ethanobotany. Major and minor tribal groups, biopiracy, intellectual property rights and traditional knowledge. Methodology and role of ethanobotany in modern medicine.

### **Discipline Specific Elective I: HORTICULTURAL PRACTICES AND POST HARVEST TECHNOLOGY**

Introduction, scope, importance and branches of horticulture, urban horticulture and ecotourism. Pomoculture, olericulture, floriculture and garden design. Post harvest technology, diseases, conservation and management of crops.

### **Discipline Specific Elective II: ANALYTICAL TECHNIQUES IN PLANT SCIENCES**

Analytical techniques involved in study, isolation, purification and characterization of cell, cell organelles and biomolecules like DNA and Proteins i.e. chromatography, centrifugation, electrophoresis and

spectrophotometry etc. and Biostatistics.

### **Discipline Specific Elective III: PLANT BREEDING**

Introduction, objectives and achievements of plant breeding. Crop improvement methods, quantitative inheritance, inbreeding depression and heterosis.

### **Discipline Specific Elective IV: RESEARCH METHODOLOGY**

Basic concepts of research, data collection and documentation of observations. General laboratory practices and problems. The art of scientific writing and its presentations.

## **Chemistry**

### **B.Sc. (H) Chemistry**

#### **Semester- I**

#### **Core Courses**

#### **CHEC-101A : Inorganic Chemistry- I: Atomic Structure and Chemical Bonding**

**Objective:** To recapture the fundamentals of chemistry. There are also chapters which give the advanced concepts of the subject.

#### **CHEC-101B: Practical**

**Objective:** The practical sessions consist of various titration aspects including preparation of solutions of different Molality/Normality of titrants. Such experiments make the students vigilant for precision and accuracy of reading.

#### **CHEC-102A: Physical Chemistry-I: States of Matter and Ionic Equilibrium**

**Objective:** To be acquainted with the physical world which we encounter. The classes unfold the chemistry behind various phenomena taking place in our daily life. This brings wonders of the universe.

#### **CHEC-102B: Practical**

**Objective:** To make the students grasp the natural laws which play the vital role in maintaining the rhythm of the universe namely the aspects of surface tension, viscosity,  $p^H$  etc.

## Compulsory Course

### AECC-101: English Communication

**Objective:** This is a compulsory course which aims at the communication skill among the students. The pedagogy of this course is more interactive so that the students gain self-confidence and they are able to articulate their ideas and views.

## Semester-II

### Core Courses

#### CHEC-203A: Organic Chemistry-01: Basics of Organic Chemistry and Hydrocarbons

**Objective:** To be familiar with the basics of Organic Chemistry which are applied in understanding the nature, structure, properties and changes of matter. Students equip themselves through this paper and take off to grasp the world of hydrocarbons.

#### CHEC-203B: Practical

**Objective:** The practical sessions are designed to impart the knowledge of handling the organic compounds by practical in purification of compounds, finding the Boiling Points, separation of mixtures etc.

#### CHEC-204A: Physical Chemistry-II: Chemical Thermodynamics and its Applications

**Objective:** It is little bit advanced course in Physical Chemistry. The contents slowly unfold the dynamics of matter and students understand the science behind the physical phenomena in our day-to-day life.

#### CHEC-204B: Practical

**Objective:** To come in touch with Thermo chemistry. Students have to determine experimentally the heat capacity of a calorimeter, calculation of enthalpy, determination of basicity/proticity of a polyprotic acid and also solubility of benzoic acid etc.

## Compulsory course

### AECC-202: Environmental Studies

**Objective:** The students come to know the physical and social environment. How the co-existence with plants, animals, reptiles, fish, human beings etc. is important for human happiness and also for the future posterity. This inspires the students to lead an ethical life.

## Semester-III

### Core Courses

**CHEC-305A:** Inorganic Chemistry-II: s and p-block elements

**Objective:** To show the students the nuances of matter. The importance of atomic structure of elements and their properties in chemical reactions and their classification as s-block elements and p-block elements have been the emphasis of the contents.

**CHEC-305B:** Practical

**Objective:** Estimation of Cu(II) and  $K_2Cr_2O_7$ , preparation of inorganic compounds are performed in the laboratory. Students enhance their knowledge about chemical synthesis.

**CHEC-306A:** Organic Chemistry-II: Oxygen containing functional groups

**Objective:** To know the importance of functional groups and their role in reactions and chemical as well as physical properties.

**CHEC-306B:** Practical

**Objective:** Functional group tests for alcohols, phenol, carbonyl and carboxylic acids give the clear picture of chemical properties. Students become familiar with the difference. Organic preparations and hydrolysis of organic compounds also help the students understand the properties of compounds.

**CHEC-307A:** Physical Chemistry-III: Phase Equilibrium and Chemical Kinetics

**Objective:** This core subject sheds light on the importance of equilibrium and co-existence in the universe. The students come to realize this with scientific view-point.

**CHEC-307B:** Practical

**Objective:** Students come to know the critical temperature and composition of phenol-water system, construction of phase diagram etc. In this practical paper the students also study the kinetics of reactions.

**Skill Enhancement Course**

**CHESEC-301:** Intellectual Property Rights

**Objective:** To bring the legal and ethical aspects in learning and writing. Students are taught about the introductory aspects of print and electronic media and their use in research and publication.

**Semester-IV**

**Core Courses**

**CHEC-408A:** Inorganic Chemistry-III: Co-ordination compounds

**Objective:** To give the insight about the complex formation of elements.

**CHEC-408B:** Practical

**Objective:** Here the experiments are about complex formation. Students do the practical individually and gain their personal insight to get the optimum result.

**CHEC-409A:** Organic Chemistry-III: Heterocyclic compounds

**Objective:** To bring to the knowledge of the students that organic chemistry is not only the reaction between oxygen and hydrogen but there are life sustaining and nurturing compounds.

**CHEC-409B:** Practical

**Objective:** To familiarize with the functional groups by doing qualitative analysis of unknown organic compounds containing nitrile, amine, amide, aldehyde, ketone etc.

**CHEC-410A:** Physical chemistry-IV: Electrochemistry, Electrical and Magnetic properties of atoms/molecules

**Objective:** To come to know science as the boon in our daily life. It is a means to make our life efficient and better so that we can achieve maximum potential.

**CHEC-410B:** Practical

**Objective:** To know the role of acids and bases in cells. How electrical energy is obtained from chemical reactions.

Skill Enhancement Course

**CHESEC-402:** Biochemistry

**Objective:** To study and to understand the functions of various chemicals in living beings. It sheds light on carbohydrates, lipids, proteins, DNA and RNA.

## **Semester-V**

**Core Courses**

**CHEC-511A:** Organic chemistry-IV: Biomolecules

**Objective:** To know the structure and properties of amino acids, peptides, proteins, nucleic acids and enzymes. This helps to synthesize medicine.

**CHEC-511B:** Practical

**Objective:** The practical help the students understand the optimum amount of chemicals in living beings.

**CHEC-512A:** Physical chemistry: Quantum chemistry and Spectroscopy

**Objective:** To understand the role of micro particles and from quantum chemistry treatment, arrive at certain postulates which were only in theory. The study of spectroscopy is an eye opening in the area of research and its utility in determining the structure of synthesized compounds.

**CHEC-512B:** Practical

**Objective:** To study the absorption/emission of light in solutions/ matter through colorimetric practical. It also consists of experiments to observe  $p^H$ -dependence of the UV-VIS spectrum.

### **Discipline Specific Electives**

**CHEDSE-501A:** Applications of computer in chemistry

**Objective:** To know the use of computer in chemistry. Conceptual background and molecular modeling are included.

**CHEDSE-501B:** Practical

**Objective:** Various exercises are there so that the students are able to draw molecular models.

**CHEDSE-502A:** Analytical methods in chemistry

**Objective:** To know various tools available for analysis of unknown compounds.

**CHEDSE-502B:** Practical

**Objective:** To learn the application of various methods e.g. chromatography etc.

## **Semester-VI**

### **Core Courses**

**CHEC-613A:** Inorganic chemistry-VI: Organometallic chemistry

**Objective:** This course helps to understand the routes for synthesis of catalysts/reagents.

**CHEC-613B:** Practical

**Objective:** Qualitative semi micro analysis of mixtures containing 3 anions and 3 cations. Emphasis is given to the understanding of the chemistry of various reactions.

**CHEC-614A:** Organic chemistry-VI: Carbohydrates and dyes

**Objective:** It deals with carbohydrates and dyes. Students are supposed to understand the chemistry behind healthy food and colours.

**CHEC-614B:** Practical

**Objective:** The practical sessions consists of extraction and qualitative analysis of organic compounds/caffeine etc.

### **Disciple Specific Elective**

**CHEDSE-603A:** Industrial chemicals and Environment

**Objective:** To know the effect of chemicals and to control pollution.

**CHEDSE-603B:** Practical

**Objective:** Determination of Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD) and estimation of total alkalinity of water sample are done by the students. They learn by doing.

**CHEDSE-604A:** Instrumental methods of chemical analysis

**Objective:** Theoretical aspects of various methods are taught in the class which helps them understand the nuances behind different approaches of analysis.

**CHEDSE-604B:** Practical

**Objective:** The students come to know the application of instruments and the usage in analysis of complexes/compounds.

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### **Economics**

#### **PROGRAMME OUTCOME [B.A. (Economics Hons.)]:-**

PO – 1: After completing three years for Bachelors in Economics (B.A.) program, students would gain a thorough grounding in the fundamentals of Economics.

PO – 2: The Economics curriculum offers a number of specializations and practical exposures which would equip the student to face the modern-day challenges in day to day life.

PO -3 The all-inclusive outlook of the course offer a number of value based and job oriented courses ensures that students are trained into up-to-date.

### **Course Objectives B.A. (Economics Hons.):-**

**Semester – I:-**

#### **Paper:-**

#### **INTRODUCTORY MICROECONOMICS (CC101)**

##### **Objectives:**

1. This course is designed to expose the students to the basic principles of microeconomic theory.
2. The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyze real-life situations.

#### **MATHEMATICAL METHODS IN ECONOMICS–I (CC102)**

##### **Objectives:**

1. The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this syllabus.

**Semester – II:-**

#### **Paper:-**

#### **INTRODUCTORY MACROECONOMICS (CC203):-**

##### **Objectives:**

1. This course aims to introduce the students to the basic concepts of Macroeconomics.
2. This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like savings, investment, GDP, money, inflation, and the balance of payments.

#### **MATHEMATICAL METHODS IN ECONOMICS – II (CC204):-**



**Objectives:**

1. The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this Syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general.

**Semester – III:-****Paper:-****INTERMEDIATE MICROECONOMICS – I (CC305):-****Objectives:**

1. The course is designed to provide a sound training in microeconomic theory to formally analyze the behaviour of individual agents.
2. This course looks at the behaviour of the consumer and the producer and also covers the behaviour of a competitive firm.

**INTERMEDIATE MACROECONOMICS – I (CC306):-****Objectives:**

1. This course introduces the students to formal modeling of a macro-economy in terms of analytical tools.
2. It discusses various alternative theories of output and employment determination in a closed economy in the short run as well as medium run, and the role of policy in this context.
3. It also introduces the students to various theoretical issues related to an open economy.

**STATISTICAL METHODS FOR ECONOMICS (CC307):-****Objectives:**

1. This is a course on statistical methods for economics. It begins with some basic concepts and terminology that are fundamental to statistical analysis

and inference. It then develops the notion of probability, followed by probability distributions of discrete and continuous random variables and of joint distributions. This is followed by a discussion on sampling techniques used to collect survey data.

2. The course introduces the notion of sampling distributions that act as a bridge between probability theory and statistical inference.
3. The semester concludes with some topics in statistical inference that include point and interval estimation.

#### **Semester – IV:-**

##### **Paper:-**

##### **INTERMEDIATE MICROECONOMICS – II (CC408):-**

##### **Objectives:**

1. This course is a sequel to Intermediate Microeconomics I. The emphasis will be on giving conceptual clarity to the student coupled with the use of mathematical tools and reasoning.
2. It covers general equilibrium and welfare, imperfect markets and topics under information economics.

##### **INTERMEDIATE MACROECONOMICS – II (CC409):-**

##### **Objectives:**

1. This course is a sequel to Intermediate Macroeconomics I.
2. In this course, the students are introduced to the long run dynamic issues like growth and technical progress.
3. It also provides the micro-foundations to the various aggregative concepts used in the previous course.

##### **INTRODUCTORY ECONOMETRICS (CC410)**

##### **Objectives:**

1. This course provides a comprehensive introduction to basic econometric concepts and techniques.
2. It covers statistical concepts of hypothesis testing, estimation and diagnostic testing of simple and multiple regression models.
3. The course also covers the consequences of and tests for misspecification

of regression models.

## **Semester – V:-**

### **Paper:-**

#### **INDIAN ECONOMY-I (CC511):-**

##### **Objectives:**

1. Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points.

#### **DEVELOPMENT ECONOMICS-I (CC512):-**

##### **Objectives:**

1. This is the first part of a two-part course on economic development. The course begins with a discussion of alternative conceptions of development and their justification.
2. It then proceeds to aggregate models of growth and cross-national comparisons of the growth experience that can help evaluate these models.
3. The axiomatic basis for inequality measurement is used to develop measures of inequality and connections between growth and inequality are explored.
4. The course ends by linking political institutions to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state governance.

#### **MONEY AND FINANCIAL MARKETS (DSE501):-**

##### **Objectives:**

1. This course exposes students to the theory and functioning of the monetary and financial sectors of the economy.
2. It highlights the organization, structure and role of financial markets and institutions.
3. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms and monetary

policy with special reference to India are also covered.

### **PUBLIC ECONOMICS (DSE502):-**

#### **Objectives:**

1. Public economics is the study of government policy from the points of view of economic efficiency and equity.
2. The paper deals with the nature of government intervention and its implications for allocation, distribution and stabilization.
3. Inherently, this study involves a formal analysis of government taxation and expenditures.
4. The subject encompasses a host of topics including public goods, market failures and externalities.
5. The paper is divided into two sections, one dealing with the theory of public economics and the other with the Indian public finances.

### **Semester – VI:-**

#### **Paper:-**

### **INDIAN ECONOMY-II (CC613):-**

#### **Objectives:**

1. This course examines sector-specific policies and their impact in shaping trends in key economic indicators in India.
2. It highlights major policy debates and evaluates the Indian empirical evidence.

### **DEVELOPMENT ECONOMICS-II (CC614):-**

#### **Objectives:**

1. It begins with basic demographic concepts and their evolution during the process of development. The structure of markets and contracts is linked to the particular problems of enforcement experienced in poor countries. The governance of communities and organizations is studied and this is then linked to questions of sustainable growth.
2. The course ends with reflections on the role of globalization and increased international dependence on the process of development.

### **ENVIRONMENTAL ECONOMICS (DSE603):-**

#### **Objectives:**

1. This course focuses on economic causes of environmental problems. In

particular, economic principles are applied to environmental questions and their management through various economic institutions, economic incentives and other instruments and policies. Economic implications of environmental policy are also addressed as well as valuation of environmental quality, quantification of environmental damages, tools for evaluation of environmental projects such as cost-benefit analysis and environmental impact assessments. Selected topics on international environmental problems are also discussed.

### **INTERNATIONAL ECONOMICS (DSE604):-**

#### **Objectives:**

1. This course develops a systematic exposition of models that try to explain the composition, direction, and consequences of international trade, and the determinants and effects of trade policy.
2. It concludes with an analytical account of the causes and consequences of the rapid expansion of international financial flows in recent years.
3. Although the course is based on abstract theoretical models, students will also be exposed to real-world examples and case studies.

### **Course Objectives M.A. (Economics):-**

#### **Semester – I:-**

#### **Paper:-**

#### **Course 1: THEORY OF CONSUMER BEHAVIOUR AND PRODUCTION:-**

#### **Objectives:**

1. This course is designed to expose the students to the advanced principles of microeconomic theory.
2. The emphasis will be on in depth analysis and applications of the microeconomic concepts to real-life problems.

#### **Course 2: MACRO ECONOMIC THEORY –I:-**

#### **Objectives:**

1. This course is designed to expose the students to the advanced principles of macroeconomic theory.
2. The emphasis will be on in depth analysis and applications of the macroeconomic concepts to real-life problems.
- 3.

#### **Course 3: PUBLIC ECONOMICS:-**

**Objectives:**

1. This course is essentially an evaluation of the role of the public sector in a market economy.
2. It aims at understanding the role of the government in promoting the efficiency objective in the presence of several sources of market failures and to study the taxation, expenditure and debt policies of the government.

**Course 4: ELEMENTARY MATHEMATICAL ECONOMICS:-****Objectives:**

1. This course is designed to introduce mathematical economics to the students and to show the application of various tools of linear algebra and differential calculus to analyze the economic models used in microeconomics and macroeconomics.

**Semester – II:-****Paper:-****Course 5: ECONOMICS OF WELFARE AND DISTRIBUTION:-****Objectives:**

1. This course is designed to gain insight into the dimensions of welfare economics including recent developments in the area.
2. The emphasis will be on analysis of the foundations of welfare policy in today's modern economy.

**Course 6: MACRO ECONOMIC THEORY – II:-****Objectives:**

1. This course is designed to develop a thorough understanding of macroeconomic theory and have a critical knowledge of recent research in some key areas of macroeconomics.

**Course 7: FINANCIAL INSTITUTIONS AND MARKETS:-****Objectives:**

1. The course presents an overview of how macroeconomic factors influence market pricing in debt, equity and foreign exchange markets.
2. The objective of the course is to gain an understanding of how to interpret and analyze the economic and financial environment.

**Course8: STATISTICS AND ECONOMETRICS:-**

**Objectives:**

1. This course is designed to cover the basic procedures of statistics and econometrics.
2. The first part of the course deals with the statistical underpinnings of econometrics.
3. The second part emphasizes on learning the basic econometric tools.

**Semester – III:-****Paper:-****Course 9: GROWTH ECONOMICS:-**

1. This course is designed to expose the students to the basic principles of economic growth and economic development.
2. The emphasis will be on understanding of various growth models developed overtime.

**Course 10: INTERNATIONAL TRADE:-**

1. This course is designed to expose the students to the advanced tools of international trade.
2. The emphasis will be on learning developments in the theoretical framework of international trade especially in the post world war-II era.

**Course 11(A): MATHEMATICAL ECONOMICS – I:-**

1. This course is aimed at developing the mathematical framework for understanding of the theories of microeconomics relating to consumer behaviour and production.

**Course 12(A): ECONOMETRICS – I:-**

1. This course is designed to cover the foundations of econometrics and emphasizes on learning of OLS estimators as well as the problems faced due to OLS assumptions.

**Course 11(B): AGRICULTURE-I:-**

1. This course is designed to expose the students to understand the role of agriculture in economic development and analyze various dimensions of the agricultural sector.

**Course 12(B): DEMOGRAPHY-I:-**

1. This course is designed to expose the students to understand the role of agriculture in economic development and analyze various dimensions of the agricultural sector.

**Semester – IV:-**

**Paper:-**

**Course 13: ECONOMICS OF DEVELOPMENT:-**

1. This course is designed to expose the students to the basic principles of economic growth and economic development.
2. The emphasis will be on understanding of various developmental models used in economics.

**Course 14(A): MATHEMATICAL ECONOMICS – II:-**

1. This course is aimed at developing the mathematical framework for understanding of the theories of macroeconomics relating to national income determination, growth and fluctuations.

**Course 15(A): ECONOMETRICS – II:-**

1. This course is designed to cover the time series analysis.
2. The second part of the course covers an in-depth analysis of multivariate distribution.

**Course 14(B): AGRICULTURE-II:-**

1. This course is designed to expose the students to understand various dimensions of rural labour market and their inter linkages.

**Course 15(B): DEMOGRAPHY-II:-**

1. This course is designed to expose the students to analyze the demographic data base in India and understand the government policy to control the population.

**Course 16: DISSERTATION:-**

1. This course is designed to expose the students to understand the role of agriculture in economic development and analyze various dimensions of the agricultural sector.

**English (U.G.)**

**PROGRAMME OUTCOME (B.A):** The three years Bachelor of Arts in English Programme aims at imparting the student of literature the ability to independently read, understand, interpret and analyse literary texts in different genres. At the completion of course it is hoped that the student of literature will be familiar with some of the major literary texts produced in countries



other than England and India. The undergraduate programme is designed to enable the student of literature to be familiar with major literary theories and to have knowledge of the concepts and critical tools used in contemporary literary criticism.

## **COURSE OBJECTIVE : B.A. English Honours under Choice Based Credit System 2018**

### **Semester I**

#### **Core Course 1: History of English Literature**

**Objective:** The objective the course is to provide the student of literature the knowledge and understanding of the major literary ages in British literature. A study of the history English literature serves as a foundation course in the study of British literature and the purpose is to familiarize students with the changes in the history of English literature.

#### **Core Course 2: Classical Literature (European and Indian)**

**Objective:** The study of European and Indian classical literature is aimed at imparting the student of literature a knowledge and understanding of classical literature. The objective of this course is to familiarize learners with some of the best classical literary texts in India and Europe.

### **Semester II**

#### **Core Course 3: History of Principles of Literary Criticism**

**Objective:** The course purports to impart the student of literature a knowledge of how different critical perspectives have evolved over the ages. The learner should be familiar with significant literary terms.

#### **Core Course 4: Indian Writing in English**

**Objective:** The reading of Indian Writing in English will familiarize students of literature with some of the best writers of literature in English in India has evolved over time.

### **Semester III**

#### **Core Course 5: Literary Theory**

**Objective:** A study of the various literary theories will enable the student of literature to know and understand the various concepts in literary theory and the critical tools employed in contemporary literary criticism.

#### **Core Course 6: British Literature: 14<sup>th</sup> to 17<sup>th</sup> centuries**

**Objective:** The course contains two units for a detailed study of two literary genres, namely poetry and drama. The course affords a study and analysis of the growth and development of English literature from the early years of its history. It purports to familiarize the student of literature with the leading literary figures and their work and the development of the two literary genres.

#### **Core Course 7: British Literature: 17<sup>th</sup> and 18<sup>th</sup> centuries**

**Objectives:** The course carries forward the study and analysis of the growth and development of English literature through a detail study of the leading literary figures of the age and their texts. The objective is to familiarize the student of literature with literary characteristics trends and genres in specific literary periods. The course affords a study of prose, poetry and drama in the period specified.

### **Semester IV**

#### **Core Course 8: British Literature : 18<sup>th</sup> Century**

**Objective:** The course offers a study of prose and poetry in the period specified with a view to familiarize the student of the literature with changes and developments in these two genres. The purpose of the course is to impart knowledge and understanding of literary trends and characteristics in the two genres.

### **Core Course 9: British Romantic Literature**

**Objective:** The course entails an in-depth study of two literary genres of the period specified namely poetry in fiction. The study of chief authors and their works in age is meant to impart to the students of literature a clear understanding and knowledge of the literary characteristics of the authors under survey and the tendencies of the age.

### **Core Course 10: British Victorian Literature**

**Objective:** This course is devoted to the study of two literary genres of the period specified namely, poetry and fiction. The course offers a detailed study of the leading poets and fiction writers through their chief works. The course carries further the study of the development of literature through a study and analysis of the characteristics of the two literary genres.

## **Semester V**

### **Core Course 11: Women's Writing**

**Objective:** In keeping with the current trends in literary critical studies, this course is devoted to the study of Women's Writing. The objective of the course is to familiarize the student of literature with the current trends in literary writing showcasing the growth and diversification of literary studies around the world. The course purports to impart an understanding of the characteristics of the various literary genres in the new academic discipline.

### **Core Course 12: British Literature: 20<sup>th</sup> Century**

**Objective:** This course is devoted to the study of three literary genres namely poetry, fiction and drama in the period specified. The objective of the course is to familiarize the student of literature with the trends and characteristics of the literature of the period specified through the study of the chief authors of the age and their works.

## **Semester VI**

### **Core Course 13: World Literature**

**Objective:** The objective of this course is to familiarize the student of literature with the genres of drama and fiction. The course affords a study of some of the leading international literary figures.

#### **Core Course 14: Postcolonial Literatures**

**Objective:** The course unfolds to the student of literature yet another current academic discipline. The student of literature through the study and analysis of two literary genres in this academic discipline, namely, poetry and fiction, gains an understanding of the features of this literary critical writing and gains familiarity with some of the leading literary figures in this academic discipline.

#### **Semester V**

##### **Course: Discipline Specific Elective (DSE) 1: Modern Indian Writing in English Translation**

**Objective:** The objective of this course is to provide the student of literature a wide spectrum of readings in contemporary literature in our own country.

##### **Course: Discipline Specific Elective (DSE) 2: Literature of the Indian Diaspora**

**Objective:** The course affords to the student of literature a study of the concepts in this academic discipline. The objective is to impart familiarity with authors and texts in this discipline.

#### **Semester VI**

##### **Course: Discipline Specific Elective (DSE) 3: Literary Criticism**

**Objective:** The course affords to the student of literature a study of the critical concepts and familiarity with the literary critical tools through a study of critical authors and their texts.

##### **Course: Discipline Specific Elective (DSE) 4: Essays from Contemporary Literary Theory**

**Objective:** This course purports to impart to the student of literature a study of literary theories through the writings of major theorists.

#### **Semester I**

##### **Course: Generic Elective (GE) 1: Writing Skills**

**Objective:** The objective of this course is to impart skills in composition and to familiarize the student of literature with the techniques of writing.

**Course: Generic Elective (GE) 2: Language through Literature**

**Objective:** The reading and study of selected prose pieces in this course is intended to impart to the student of literature a study of language use through a study of literary texts.

**Semester III**

**Course: Generic Elective (GE) 3: Media and Mass Communication Skills**

**Objective:** The objective of this course is to impart to the student of literature a knowledge of journalistic writing.

**Course: Generic Elective (GE) 4: Language, Literature and Culture**

**Objective:** The course affords a study of language and culture through the reading of literary pieces.

**Semester III**

**Course: Skill Enhancement Elective Course (SEC) 1: Translation and Principles of Translation**

**Objective:** The course is devoted to the study of the principles and practice of translation. The objective of this course is to familiarize the student of literature with the skills, techniques and process of translation.

**Semester IV**

**Course: Skill Enhancement Elective Course (SEC) 2: Soft Skills**

**Objective:** This course affords the student of literature a knowledge of the soft skills.

**English(P.G.)**

**PROGRAMME OUTCOME (M.A.):** The two years Master of Arts in English programme aims at inculcating in the students of literature an inclination towards research. The courses are designed to impart in-depth study of literature with a view to inculcate analytical and critical habits of thought and to suitably equip learners with the necessary skills needed to take up research activities.

**Course Objectives: M.A. English under Choice-Based Credit System 2018**

The M.A. English Programme is a two year course and is divided into four semesters. The total number of papers offered in the M.A. Programme are sixteen which are equally spread over four semesters. The course objectives of the M.A. English Programme are as under:

### **Semester I**

#### **Core Course 1: Literature in English (1350-1600): Poetry and Prose**

**Objectives:** The course deals with the authors of English prose and poetry in the early years of the growth and development of British Literature. The course is designed to afford a clear understanding of the student of literature about the trends and characteristics of literature in its early stages.

#### **Core Course 2: Literature in English (1550-1660): Drama**

**Objectives:** This course deals exclusively with one literary genre and affords to the students of literature a deep study of the genre through the principal literary figures of the age specified. The objective of the course is to impart to the student of literature critical insights into this genre and to be familiar with the major influences that contributed to the development of this literary genre.

#### **Core Course 3: Literature in English (1660-1798): Poetry and Drama**

**Objective:** The key areas of study in this course namely poetry and drama in the period specified purports to impart a clear understanding of two genres. A deep critical study of the authors and the texts prescribed will enhance students knowledge of the genres.

#### **Core Course 4: Literature in English (1660-1798): Fiction and Non-Fiction**

**Objective:** In continuation of the study of literature in the period specified, the focus in this course is on another literary genre. The objective of the course is to critically study and evaluate literary texts in this genre with a view to understanding its features, characteristics and study its development.

### **Semester II**

#### **Core Course 5: Literature in English (1798-1914): Poetry and Fiction**

**Objective:** There are two units in this course devoted to the study of two genres, namely poetry and fiction, in the period specified. The objective of this course is to afford to the student of literature a thorough study, analysis and understanding of the two genres through the study of specific authors and their works.

### **Core Course 6: Literature in English (1914-2000): Poetry and Drama**

**Objective:** This course carries forward the study of the development of literature in the specified period. The study of poetry and drama through a study of the eminent authors and their works is meant to impart to the student of literature a knowledge and understanding of the changing and evolving trends and characteristics of the period specified.

### **Core Course 7: Modern English Fiction (1914-2000)**

**Objective:** This course is devoted exclusively to the study of genre in the specified period of time, namely fiction. The purpose of the course is to enable students to understand the features and the changes in the characteristics of this genres.

### **Core Course 8 (a): American Literature (Optional Course)**

**Objectives:** The course offers a study of literature other than Great Britain and deals with literary genres namely fiction, poetry and drama. The course affords knowledge and understanding of the development of three genres outside Great Britain.

### **Core Course 8 (b): English Language Teaching (Optional Course)**

**Objective:** This being another elective course, offers knowledge and study of another related discipline namely English Language Teaching (ELT). The objective of this course is to enable students to understand the aspects that are involved in language teaching. The aim of the elective/ optional courses is to allow students of literature knowledge about related fields of study and provide greater opportunities and scope for diversification.

## **Semester III**

### **Core Course 9: Classical Criticism and Theory**

**Objective:** The course containing two separate units of theory and criticism is meant to impart to the student of literature an understanding and knowledge of Classical Criticism outside India and concepts underlying Indian Aesthetics.

### **Core Course 10: Indian Literature in English**

**Objective:** The course offers a study and analysis of Indian Literature in English in the three genres namely, poetry, fiction and drama. The objective of this course is to familiarize students of literature with the trends, features and characteristics of the three genres and the development of Indian Literature in English from its earliest to the modern times.

### **Core Course 11: Contemporary Literary Theory**

**Objective:** The course offers a study of the critical principles of contemporary literary theory through a study of a few leading theorists. The objective of the course is to impart to the students of literature a knowledge and understanding of critical tools used in the study and interpretation of literature.

### **Core Course 12 (a): European Literature in Translation**

**Objective:** This is an elective course and offers the student of literature a study of European authors. The objective of the course is to familiarize the student of literature with a few leading European authors.

### **Core Course 12 (b): Indian Literature in English**

**Objective:** The course offers a study of some of the best and leading authors in the literature of our own country. The objective of the course is to familiarize the student of literature with the best that is available in our literature.

## **Semester IV**

### **Core Course 13: New Literature in English**



**Objectives:** This course focuses on two genres namely, poetry and fiction in the literature other than that of Great Britain. The course purports to familiarize the students of literature with of these authors and their writings.

#### **Core Course 14: Literature and Gender**

**Objective:** This course takes up for study, analysis and critical evaluation some of the more recent concerns that have come to be associated with literary studies. The objective of the course is familiarize the student of literature with these concerns.

#### **Core Course 15: Introduction to Postcolonial Theory**

**Objective:** This course is concerned with a study of critical concepts, idea, notions and thoughts that underline this critical theory. The objective of the course is to impart to the student of literature familiarity with these so as to foster critical ways of thought for interpretation and evaluation.

#### **Core Course 16: Dissertation on Contemporary World Literature**

**Objective:** The primary objective of this course is to familiarize the student of literature with research activities. The course is intended to impart a practical experience of carrying out research and report its findings. Its purpose is to impart to the student all the training and skills needed to carry out research independently.

### **Physics**

#### **Programme Outcomes:**

The department is very actively involved in teaching and research in areas of Material Science and Nanotechnology. It is equipped with state of art UG labs to cater the needs of students pursuing physics as honors and also to students who have physics as Generic elective subject. UG curriculum, besides the core courses in physics, includes courses like computer programming lab, C/C++ programming which are important for students to grow academically as researchers. Salient features of the programme are listed below.

- The Physics honors course curriculum is designed so as to enable the students develop an advanced theoretical and research skills in fields of contemporary science, and their relevance, from day to day life to current developments in physics.
- Provide them a platform for higher academic options viz., Master of Science (M Sc)/ Master of Philosophy (M Phil) or Doctor of Philosophy (Ph D) and other professional career.
- Students pursuing this course are also eligible for other employment opportunities like teaching, research, banking, business or they can even go for startups etc. The course aims at making graduates successful professionals by demonstrating logical and analytical thinking abilities for solving problems in any sphere they work.
- The course makes them learn and communicate effectively, either independently or in a team, and demonstrate leadership qualities.
- Through this program, interested students are provided an opportunity to gain first-hand experience of experimental/theoretical/computational research in different areas, preferably Material Science and Nano-technology, under the supervision of faculty members in the department. This is likely to enhance student's insight into research work and make him/her compatible for a broad range of career opportunities.

#### **Programme Specific Outcomes:**

- Develop ability to choose, analyze and interpret information from variety of sources like books, journals, classroom teaching, open access courseware and the internet.
- Learn mathematical tools and computational techniques for solving and analyzing complex physical problems.
- Demonstrate experiments to determine different physical quantities, physical constants and other measurements and to analyze data acquired from those experiments.
- Critically interpret data using computational and graphical means and write reports of the same.
- Learn programming languages and apply it to solve various problems related to Quantum mechanics, thermodynamics and other relevant branches of physics.
- Understand core physical concepts, key principles and theories along with their applications and develop ability to solve complex problems.
- Familiarize students with current developments in physics and research areas.
- Learn through participation in multidisciplinary seminars/ workshops as a team and work cooperatively and responsibly as a member of the team.

#### **Course Outcomes:**

- To develop the foundations of vector calculus in three dimensions, using Cartesian coordinates, Spherical polar coordinates and Circular Cylindrical coordinates and their application to the study of two and three dimensional curves and surfaces. Understand the physical meaning of the vector differential operators and the proofs of integral theorems of vector calculus and their simple applications.
- To develop the basic knowledge of interferometry and its application for accurate measurement of optical characteristics of a wave using standard interferometer like the Michelson and Feby-Perot Interferometers. The concept of interference is further generalised with knowledge of diffraction from various apertures and corresponding applications.
- Introduction to Dirac notation and use it to solve various problems. Introduction to Tensors and its properties. Understand how transformation laws are formulated using matrices and elementary notion of symmetries associated with the transformations.
- To develop understanding of various fundamental interactions and conservation principles in the universe and introduction to most of the families of elementary particles present in nature.
- To develop the evolution of a nucleus, nuclear forces and its possible interactions, the knowledge of various counters and accelerators.
- Understand the elastic properties of matter and the limits of elastic behavior. Understand the appreciation of surface phenomena and the concept of energy involved in the creation of new surfaces.
- Limitations of classical mechanics and introduction to quantum mechanics. Applying Schrodinger equation to one dimensional and three dimensional problems. Concept of operators and their properties.
- An exposure to different network theorems helps in electrical network analysis and performing/designing experiments effectively.
- Concepts of semiconductor materials. Calculation of carrier concentration in the intrinsic and extrinsic semiconductor. P-n junction formation and behavior of the junction in different external bias condition. Normal diodes and special purpose diodes and their uses in electronic circuits. Concept of transistor working and device fabrication using it.
- Concept of digital electronics. Boolean algebra, implementation of basic gates using diode and transistors, EX-OR gate, Half adder and Full adder.
- Propagation of electromagnetic wave in different medium. Fresnel's Formulae and Evanescent wave. Detailed idea of polarization.
- Partition function and Statistical ensembles. Fermi Dirac Statistics and Bose Einstein Statistics.

## **B.B.A.**

**Semester – I**

**Environmental Science**

**Paper – BBA/AECC/101(2 Credit)**

**Objective:** The environmental science majorly prepares students in natural resources and conservation, public health, environmental monitoring and remediation, industrial environmental management, or research or education of environmental science.

### **Semester-I**

#### **Principles & Practices of Management**

##### **Paper- BBA/C/101 (6 Credits)**

**Objective:** The study of this subject enables students to demonstrate their knowledge of business and management principles, their critical-thinking and problem-solving skills, an awareness of the global environment in which businesses operate, and the ability to recognize when change is needed, adapt to change as it occurs, and lead change.

### **Semester-I**

#### **Business Statistics**

##### **Paper – BBA/C/102 (6 Credits)**

**Objective:** To familiarize the students with various Statistical Data Analysis tools that can be used for effective decision making. Emphasis will be on the application of the concepts learnt.

### **Semester I**

#### **Ethics & Corporate Social Responsibility**

##### **Paper – BBA/GE/101 (6 Credits)**

**Objective:** This subject introduces students to contemporary issues in the relationship between business and ethics. In the modern world, there is a range of views on how business should relate to society and how managers' decisions can relate to ethical concerns. Students thus learn how to think through the complex problems of business ethics and consider how ethical principles could influence management decisions. The ideas discussed include critical evaluation of corporate social responsibility strategies and concepts of the firm as an organization of stakeholders.

### **Semester – II**

#### **Business Communication**

##### **Paper – BBA/AECC/202 (2 Credit)**

**Objective:** The course will provide the students with an elaborate knowledge of Business Communication enabling them to develop their learning, reading, listening, and writing skills and ability to communicate, represent and reproduce whatever they have learnt on their respective fields of knowledge, to help them acquire practical/written and oral communication skills, and to enable them to develop communication skill effectively in various business situations.

### **Semester – II**

#### **Human Resource Management**

##### **Paper – BBA/C/203 (6 Credit)**

**Objective:** In this subject, students will learn the basic concepts & framework of Human Resource Management (HRM) and understand the role that HRM has to play in effective business administration. More specifically, students will analyze elements such as the environment surrounding each company and discuss how these elements relate to various parts

of HRM such as human resource planning, recruitment, selection, training and development, performance appraisal, wage and salary administration, etc.

### **Semester – II**

#### **Organizational Behaviour**

##### **Paper – BBA/C/204 (6 Credit)**

**Objective:** This subject will enable students to identify the basic determinants of individual behavior, group dynamics and organizational processes, and explain how they impact on organizational performance from both an efficiency and well-being perspective. Also, the subject will help students to identify, describe and critically evaluate varied managerial approaches and organizational behavior theories, concepts and models as applied to real-life management situations.

### **Semester – II**

#### **Entrepreneurship Development**

##### **Paper – BBA/GE/202**

**Objective:** In this subject student will learn about the origin of entrepreneurship, the various definitions of entrepreneurship and entrepreneur, entrepreneurial development and entrepreneurial traits and motivation. The types of entrepreneurs and their characteristics will also be covered. Also, students will get to know the dynamics of setting up a small industry and the elements involved in it.

### **Semester – III**

#### **Managerial Economics**

##### **BBA/C/305 (6 Credit)**

**Objective:** The objective of this syllabus is to expose students to basic micro economic concepts; to apply economic analysis in the formulation of business policies; to familiarize with the students the importance of economic approaches in managerial decision making; to understand the applications of economic theories in business decisions; and to use economic reasoning to problems of business.

### **Semester – III**

#### **Principles of Marketing**

##### **Paper – BBA/C/306 (6 Credits)**

**Objective:** This subject explains and demonstrates the basic knowledge and concepts of marketing. This subject will introduce students to the techniques and the concepts that practicing marketers use to develop products and successful marketing campaigns. They will look closely at what constitutes a market and how a marketer identifies, segments and targets markets. They will be introduced to the ways in which marketers develop the elements of the marketing mix.

### **Semester – III**

#### **Cost & Management Accounting**

**Paper – BBA/C/307 (6 Credit)**

**Objective:** The main objective of the cost accounting and management accounting systems is to provide information for costing products and for promoting efficiency in the use of labor and materials. This subject imparts the Knowledge of Basic cost concepts, element of cost & Preparation of Cost Sheet and also provides basic knowledge of important Methods & Techniques of costing.

**Semester - III****Productions and Operation Management****Paper – BBA/GE/303(A) (6Credit)**

**Objective:** This subject is designed to give the students an understanding of the Production and Operations function for manufacturing and service organizations, to understand the importance of materials functions in the overall manufacturing environment and learn to use the tools and techniques for materials planning & control, to appreciate the role of maintenance in the overall effectiveness of the manufacturing resources, and to appreciate the need for an inter functional perspective for solving operations management issues that arise in business.

**Semester – III****IT Tools for Business****Paper – BBA/SEC/301(A) (2 Credits)**

**Objective:** The goal of this course is to present overview of IT tools used in day to day use of computers and data base operations. The Course has been designed to provide knowledge on various hardware and software components of computer, operating system, various packages used for different applications, data base concepts & operations and various issues related to IT and application of IT.

**Semester – IV****Business and Marketing Research****Paper – BBA/C/408 (6 Credits)**

**Objective:** The objective is to give students an understanding of how market research can be used to help organizations grow by finding new markets for their products or new products for their markets, and to know the nature and scope of marketing research. This will also enable them to examine the research process and learn different statistical techniques available for data analysis.

**Semester – IV****Macroeconomics****Paper – BBA/C/409 (6 Credits)**

**Objective:** This subject will enable students get an understanding of income, output, and expenditure, the purpose of National Accounts, and the conceptual and practical issues involved in measuring economic activity. They will be able to study the behavior and working of the economy as a whole, understand the relationships among broad aggregates, apply economic reasoning to problems of business and public policy.

**Semester - IV**

## **Financial Management**

### **Paper – BBA/C/410 (6 Credit)**

**Objective:** The objective is to introduce students to financial management and its importance and its applications in business, wealth maximization versus profit maximization, Sources of finance, financial statement analysis, and working capital management. Also, to familiarize students with the capital market in India.

## **Semester – IV**

### **Tax Planning**

#### **Paper – BBA/GE/404(A) (6 Credit)**

**Objective:** This subject aims at familiarizing the students with the principles, problems and structure of different types of business taxes in India and relevance of these taxes in business decisions. Besides, a broad understanding or role of taxation in economic and industrial development of an economy will also be given.

## **Semester – IV**

### **E- Commerce**

#### **Paper – BBA/SEC/402(A) (2 Credits)**

**Objective:** The objective of the course is to introduce the concept of electronic commerce, and to understand how electronic commerce is affecting business enterprises, governments, consumers, and people in general.

## **Semester – V**

### **Quantitative Techniques for Management**

#### **Paper – BBA/C/511 (6 Credits)**

**Objective:** The basic aim of the subject is to provide a basic understanding of the value and use of quantitative methods in administrative and operational problem solving and decision-making, and to develop an understanding of a variety of statistical and quantitative techniques applicable to a wide range of business situations. This will help students to recognize particular techniques and their applications so as to be able to apply these techniques in problem solving for management decision making.

## **Semester – V**

### **Legal Aspects of Business**

#### **Paper – BBA/C/512 (6 Credit)**

**Objective:** There are a number of laws that have a bearing on the conduct of business. These covers broadly areas relating to corporate legal framework; business transactions; labor; environment; dispute resolution etc. In this course an attempt is made to introduce the students to certain important legal aspects of business.

## **Semester - V**

### **Investment Analysis & Portfolio Management**

#### **Paper – BBA/DSE/501(A) (FM) (6 Credits)**

**Objective:** The subject is aimed at providing insight to know the investment alternatives and to the various analytical techniques used in evaluation of the various investment opportunities. The

course also provides of extension of these concepts to the portfolio of securities and the concept of diversification, management of a portfolio.

## **Semester – V**

### **Research Project**

#### **Paper – BBA/DSE/502(B) (FM) (6 Credits)**

The students of the respective specialization are supposed to undergo an approximately 300 hours of Research Project spread over 30 to 40 days (Summer Internship) with a corporate house/ business organization of repute.

The Research project should start immediately after the completion of the Fourth Semester Examination.

The students will also prepare a presentation on the industries they will be visiting in their fifth semester.

Based on the assigned projects, the students have to submit a Project Report to the department. The students will then be evaluated for 100 marks (50 marks for Viva- Voce and 30 marks for Project Writing and 20 marks for Industrial visit presentation) based on the practical assignment they have gone through during their Research Project by external evaluators from the industry.



## **Semester – V**

### **Advertising & Brand Management**

#### **Paper – BBA/DSE/501(A) (MM) (6 Credits)**

**Objective:** This subject is designed with an aim to provide students with a good view of various practical and applicable aspects of advertising and brand management that includes understanding different types of markets, competition, buyer behavior and brand building. A sound understanding of such fundamentals helps students to understand Brand Management function in the emerging context, the skills in Building and Managing Brands over time, and synthesizing a framework for a Branding Strategy

## **Semester – V**

### **Performance & Compensation Management**

#### **Paper – BBA/DSE/501(A) (HR) (6 Credits)**

**Objective:** This subject aims to clarify the principles and basic concepts of performance and compensation management in organizations, including the role of human resources management in dealing with employees, and methods used to provide compensation. It also highlights the importance of maintaining the capable education qualification, the value of developing their skills, and the significance of providing the appropriate atmosphere for them.

## **Semester – VI**

### **Business Policy & Strategy**

#### **Paper – BBA/C/613 (6 Credits)**

**Objective:** This course gives an overview of all essential aspects of business policy and strategic management. The intention is to provide students with strategy insights; reflect on strategic dilemmas; and practice strategy tools to enable students to become strategic thinkers. The course will cover strategy analysis, formulation of strategies at different levels of the organization, and strategy implementation.

## **Semester-VI**

### **Financial Institutions & Markets**

#### **Paper-BBA/C/614 (6 Credits)**

**Objective:** This course gives fundamental knowledge on the structure, function and role of the financial system in light of the complex web of links and interconnections with the banking sector. The syllabus aims to provide an overview of the major financial markets and financial institutions and to develop an understanding of the basic concepts in banking and finance and their applications.

## **Semester – VI**

### **Investment Banking & Financial Services**

#### **Paper – BBA/DSE/603(A) (FM) (6 Credits)**

**Objective:** The objective of this paper is to know the different aspects of Investment banking, mergers and acquisition and the detailed SEBI guidelines on issue management.

## **Semester - VI**

### **Project Appraisal**

#### **Paper – BBA/DSE/603(B) (FM) (6 Credits)**

**Objective:** The course will provide the students the opportunity of understanding and the ability to plan and appraise project as required. This is with the intent of enhancing their understanding of project concept and project idea formulation.

#### **Semester – VI**

##### **Consumer Behaviour**

###### **Paper – BBA/DSE/603(A)(MM) (6 Credits)**

**Objective:** This subject provides the foundation for understanding the motivations and behaviours influencing customers, which is an essential pre-requisite to the development of effective Marketing and Corporate strategy. In the context, this course will help students explore the internal, external and situational influences driving the what, where, when, why and how of Consumer Behaviour.

#### **Semester – VI**

##### **International Marketing**

###### **Paper – BBA/DSE/604(A) (MM) (6 Credits)**

**Objectives:** This subject aims to provide an analytical but practical approach to the subject area of marketing management in an international context. Thus, students could explore all aspects of marketing from a global perspective to better respond to international opportunities and competitive situations the subject will equip students with the skills and competences required to analyse and solve marketing problems relating to both individual consumers and business-to-business customers.

#### **Semester VI**

##### **Training & Development**

###### **Paper- BBA/DSE/603(A)(HR) (6 Credits)**

**Objective:** The broad objectives of the course are as follows is to enable students understand the concepts, principles and process of training and development, to develop an understanding of how to assess training needs and design training programmes in an Organizational setting, to familiarize with the levels, tools and techniques involved in evaluation of training effectiveness, and to develop an understanding on various training solutions to improve employee performance.

#### **Semester – VI**

##### **HRD: Systems & Strategies**

###### **Paper – BBA/DSE/604(A) (HR) (6 Credits)**

**Objective:** The subject provides students with a critical understanding of the theories, principles, historical trends, current issues and practices relevant to human resource management strategy in organizations. This course is aimed at providing the students the inputs on how to link the HRM functions to the corporate strategies to understand HR as a strategic resource.

#### **Geography**

#### **Course Outcomes**

Geography is the most important and comparatively developed branch of Social Science. The present syllabus includes study of systems, theories, regions, problems and the modern technologies used in geography in the context of present situation.

In the process of Globalization, the changing nature of subject will make aware of the students about the modern technologies used in geography.

### **Programme Outcomes**

#### **CC1**

The objective of this course is to introduce the latest concepts in physical geography, essentially geomorphology; to the students of geography in a brief but adequate manner.

#### **CC2**

Geography is an amalgam of physical as well as social sciences and as such, it is necessary for the students to go through laboratory exercises, particularly the techniques of drawing cartograms showing physical, climatic and socio-economic attributes of a region. To achieve this objective, the concept of scale is to be understood at the initial stage.

#### **CC3**

This paper on physical geography is structured into components of climatology. The aspects of climatology emphasize the constituents of the atmosphere, the dynamic nature of the processes associated with it and their contribution in making the earth habitable. The course content also leads to the identification of climatic differentiation on the earth, and the consequences of human activities on the atmospheric processes.

#### **CC4**

To familiarise now maps or plans of any area are prepared to enhance the skill of the students in the field of Survey for revenue purposes and understand the principles of map making.

#### **CC5**

The objectives of this course are to acquaint the students with the nature of man-environment relationship and human capability to adopt and modify the environment under its varied conditions from primitive life style to the modern living; to identify and understand environment and population in terms of their quality and spatial distribution pattern and to comprehend the contemporary issues facing the global community.

#### **CC6**

To introduce the students to the philosophical and methodological foundations of the subject and its place in the world of knowledge.

To familiarize them with the major land marks in development of Geographic thought at different hours of time.

#### **CC7**

To introduce GIS (Geographic Information System) as a tool of spatial science

To indicate the basic elements of GIS and methodology of GIS.

To outline the steps and areas of application of GIS.

To familiarise the students with the basics and fundamentals of Remote Sensing.

**CC8**

The economy of the world is changing in recent times. The changes in primary, secondary and tertiary stage is dynamic in nature. In view of this, the objectives of this course are to integrate the various factors of economic development to acquaint the students about dynamic aspects of economic geography.

**CC9**

The present syllabus of this paper includes study of various aspects of environment and problems in the context of present situation. In the process of Globalization, the changing nature will make aware of the students about the new dimensions of global environmental issues with reference to India.

**CC10**

To introduce some basic statistical procedures to the students to be applied to various themes in geography.

To indicate the assumptions, limitations & interpretation of these procedures & results.

To train the students to handle these statistics towards analyzing the geographical problems.

**CC11**

To understand and evaluate the concept of region in geography and its role and relevance in regional planning.

To identify the issues relating to the development of the regions through the process of spatial organization of various attributes and their inter relationship.

To identify the causes of regional disparities in development, perspectives and policy imperatives.

**CC12**

To understand the method of collection & analysis of the geographical data and interpret the same.

**CC13**

The course is aimed at presenting a comprehensive, integrated and empirically based profile of India. Besides, the objective is to highlight the linkages of systematic geography of India with the regional personality of the country. The course is designed so as to present the role of the geographical positioning of India in moulding its geopolitical personality and its inter-relations with other countries.

**CC14**

To understand approaches of disaster management.

To examine the various dimensions of problems during field work.

To evaluate methods and approaches of management of disasters.

**DSE 1,2,3,4**

The objective of the course is to familiarize the students with the need for understanding of various dimensions of geography with reference to certain fundamental concepts.

## **SEC1**

To familiarise students with the basics and fundamentals of Remote Sensing.

## **SEC2**

To introduce GIS (Geographic Information System) as a tool of spatial science

To indicate the basic elements of GIS and methodology of GIS.

To outline the steps and areas of application of GIS.

To familiarise students with the basics and fundamentals of Remote Sensing.

## **GE1**

The objective of this paper is to provide an overview of development and its interface with environment. The course aims to provide an understanding of the existing reality of resource utilization and depletion, further aims to sensitize the students to the concept of sustainable resource use.

To understand prevalent issues in environment, society, economy and to provide a geographical interpretation with special reference to India.

## **GE2**

The present syllabus of this paper includes study of various aspects of hazards in the context of present situation. The changing nature will make aware of the students about the new dimensions of issues with reference to India.

## **GE3**

The present syllabus of this paper includes study of various aspects of environment and problems in the context of present situation. In the process of Globalization, the changing nature will make aware of the students about the new dimensions of global environmental issues with reference to India.

## **GE4**

The course aims to provide an understanding of rural development and further aims to familiarise students with the basics and fundamentals of development programmes.

### **Course Outcomes**

- 1) To familiarize the students with the concept and development of geography.
- 2) The course further aims to familiarize the students with application of various theories of geography.
- 3) To familiarize the students with the modern technologies used in geography in the context of globalization.
- 4) This course focuses on human attitudes toward environments. Students will be introduced to some of the major perspectives within the field of environmental ethics and will learn to recognize how human beliefs and values shape relationships with the more-than-human world. Students will gain a theoretical grounding from which to critically assess environmental issues and their cultural, geographic, political, and economic dimensions and will become familiar with major debates within the field, as well as the public realm. In addition, students will learn to recognize and engage in practical applications of environmental ethics.

5) The existing degree program is comprised of courses that cover a wide range of geographic regions and content areas.

### **History**

Students after the completion of their studies will develop the following capabilities -

P.O.1- **Objective Analysis**- take decisions after rational and un-biased analysis of the facts, specially looking at social problems from historical perspective.

P.O.2- **Problem Solving**- Identify the causes of problems and reach to an amicable solutions with logical practical methods.

P.O.-3- **Values and Ethics**- Develop into a value based person, who have compatible values, attitudes and aspirations in outlook and behavior.

P.O.-4- **Social Responsibility**- Take responsibility to act for the benefit of society at large.

P.O.-5- **Broad Outlook**- Develop scientific temperament and to understand the value of diversity.

P.O.-6- **Environment Friendly**- Take steps towards protection of environment and to work for sustainable development.

P.O.7-**Communicating Skills**- Communicate effectively in Hindi, English and local language as well as remain connected with people by using modern techniques and methods like social media.

### **Programme Specific Objective**

P.SO.-1- To learn the general course of human history in multiple areas of the world.

P.SO.-2-Enhance critical thinking and analytical skills by learning to understand, analyze and evaluate

both evidence and arguments.

P.SO.-3- Enhance writing and communication skills by learning to create knowledge and communicate it to others both orally and in writing.

P.SO.-4- Acquaint students with the basic tools of interpretations and historical analysis.

### **Course Objective**

C.O.-1- To be able to describe the processes by which past and present societies have been created and perpetuated through their history, ideas, and cultural products.

C.O.-2- Describe the historical forces that created diverse human cultures and the ways societies and nations are interconnected.

C.O.-3- well demonstrate knowledge of the major events, personalities and turning points of the history of India, Europe, Russia, Modern-West, Far East and Jharkhand.

C.O.-4- Explain the development of distinctive forms of political, social, and economic organization.

C.O.-5- Identify achievements in art, architecture, literature, and assess their impact on society.

C.O.-6- Will learn to use primary as well as secondary sources and use that evidence to build and support an argument.

C.O.-7- Will learn to write assignments which have a logical structure, correct language and proper reference.

## **Commerce (U.G.)**

### **PROGRAMME OUTCOME [B.Com (Accounts Hon.)]**

PO – 1: After completing three years for Bachelors in Commerce (B.Com) program, students would gain a thorough grounding in the fundamentals of Commerce and Finance.

PO – 2: The commerce and finance focused curriculum offers a number of specializations and practical exposures which would equip the student to face the modern-day challenges in commerce and business.

PO -3 The all-inclusive outlook of the course offer a number of value based and job oriented courses ensures that students are trained into up-to-date.

### **Program Specific Outcome (PSO) [B.Com (Accounts Hon.)]**

PSO – 1: Students will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.

PSO – 2: Students will learn relevant managerial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.

PSO – 3: Learners will gain thorough systematic and subject skills within various disciplines of commerce, business, accounting, economics, business law, human resource management, finance, auditing and marketing.

PSO – 4: Learners will be able to recognise features and roles of businessmen, entrepreneur, managers, consultant, which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision making.

PSO–5: Learners will be able to prove proficiency with the ability to engage in competitive exams., CA, CS, CMA and other courses.

PSO – 6: Learners will acquire the skills like effective communication, decision making, problem solving in day to day business affaires

PSO – 7: Learners will involve in various co-curricular activities to demonstrate relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.

PSO – 8: Learners can also acquire practical skills to work as tax consultant, audit assistant and other financial supporting services.

PSO -9: Learners will be able to do higher education and advance research in the field of commerce.

PSO – 10: Students will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals. Students will be able to demonstrate knowledge in setting up a computerized set of accounting books.

PSO – 11: Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.

PSO – 12: Students will be encouraged to set up their own startup.

## **Course Objectives B.Com. (Accounts Hons.):**

### **Semester – I**

#### **Paper – 1.1 ENVIRONMENTAL STUDIES**

**Objectives:** To understand the importance of ecological balance for sustainable development, the impacts of developmental activities and mitigation measures .



### **Paper – 1.2: FINANCIAL ACCOUNTING**

**Objective:** The objective of this paper is to help students to acquire conceptual knowledge of the financial accounting and to impart skills for recording various kinds of business transactions.

### **Paper – 1.3: BUSINESS LAW**

**Objective:** The objective of the course is to impart basic knowledge of the important business laws along with relevant case law. The students would be able to apply tools of consumer behavior and firm theory to business situations.

### **Paper 1.4 : MICRO ECONOMICS**

**Objectives:** To understand and appreciate the basic Micro economics and their application to the business.

## **Semester – II**

### **Paper 2.1: BUSINESS COMMUNICATION (In English)**

**Objective:** To equip students of the B.Com (Hons.) course effectively to acquire skills in reading, writing, comprehension and communication, as also to use electronic media for business communication.

### **Paper – 2.2: MANAGEMENT PRINCIPLES AND APPLICATION**

**Objective:** The objective of the course is to provide the student with an understanding of basic management concepts, principles and practices.

### **Paper 2:3: CORPORATE LAWS**

**Objective:** To impart basic knowledge of the provisions of the Companies Act, 2013 and the Depositories Act, 1996. Case studies involving issues in corporate laws are required to be discussed.

### **Paper – 2.4: BUSINESS STATISTICS**

**Objective:** The objective of this course is to familiarize students with the basic statistical tools used to summarize and analyze quantitative information for decision making.

## Semester – III

### **Paper 3.1: BUSINESS MATHEMATICS**

**Objective:** The objective of this course is to familiarize the students with the basic mathematical tools with emphasis on applications to business and economic situations.

### **Paper 3.2: INCOME TAX LAW AND PRACTICE**

**Objective:** To provide basic knowledge and equip students with application of principles and provisions of Income-tax Act, 1961.

### **Paper 3.3: HUMAN RESOURCE MANAGEMENT**

**Objective:** To familiarise students with the Human Resources management involving planning, placement and training, significance of performance appraisal, methods of compensation etc..

### **Paper 3.4: MACRO ECONOMICS**

**Objectives:** The course aims at providing the student with knowledge of basic concepts of the macro economics. The modern tools of macro-economic analysis are discussed and the policy framework is elaborated, including the open economy.

### **Paper 3.5: E-COMMERCE**

**Objectives:** A student should become familiar with mechanism for conducting business transactions through electronic means

## Semester – IV

### **Paper 4.1: INDIRECT TAXES**

**Objective:** To provide basic knowledge and equip students with application of principles and provisions of Service Tax, VAT, Central Excise, and Customs Laws.

### **Paper 4.2: CORPORATE ACCOUNTING**

**Objectives:** To help the students to acquire the conceptual knowledge of the corporate accounting and to learn the techniques of preparing the financial statements.

### **Paper – 4.3: COMPUTER APPLICATIONS IN BUSINESS**

**Objectives:** To provide computer skills and knowledge for commerce students and to enhance the student's understanding of usefulness of information technology tools for business operations.

#### **Paper 4.4: INDIAN ECONOMY – PERFORMANCE AND POLICIES**

**Objectives:** This course seeks to enable the student to grasp the major economic problems in India and their solutions. It also seeks to provide an understanding of modern tools of macro-economic analysis and policy framework.

#### **Paper 4.5: ENTREPRENEURSHIP**

**Objective:** The purpose of the paper is to orient the learner toward entrepreneurship as a career option and creative thinking and behavior for effectiveness at work and in life.

### **Semester – V**

#### **Paper 5.1: COST AND MANAGEMENT ACCOUNTING**

**Objective:** To acquaint the students with basic concepts used in cost and management accounting and various methods involved in cost ascertainment systems.

#### **Paper 5.2: PRINCIPLES OF MARKETING**

**Objective:** The objective of this course is to provide basic knowledge of concepts, principles, tools and techniques of marketing.

#### **Paper 5.3: FINANCIAL MANAGEMENT**

**Objective:** To familiarize the students with the principles and practices of financial management.

#### **Paper 5.4 : ORGANISATIONAL BEHAVIOUR**

**Objective:** The objective of the course is to develop a theoretical understanding among students about the structure and behaviour of organization as it develops over time. The course will also make them capable of realizing the competitiveness for firms.

### **Semester – VI**

### **Paper 6.1 : AUDITING AND CORPORATE GOVERNANCE**

**Objective:** To provide knowledge of auditing principles, procedures and techniques in accordance with current legal requirements and professional standards.

### **Paper 6.2 : BUSINESS RESEARCH METHODS AND PROJECT WORK**

**Objective:** This course aims at providing the general understanding of business research and the methods of business research. The course will impart learning about how to collect, analyze, present and interpret data.

### **Paper 6.3: INTERNATIONAL BUSINESS**

**Objective:** The objective of the course is to expose students to the concept, importance and dynamics of international business and India's involvement with global business operations. The course also discusses theoretical foundations of international business to the extent these are relevant to understand the mechanics of global business operations and development.

### **Paper 6.4 : CONSUMER AFFAIRS AND CUSTOMER CARE**

**Objective:** This paper seeks to familiarise the students with of their rights as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights. It also provides an understanding of the procedure of redressal of consumer complaints, and the role of different agencies in establishing product and service standards. The student should be able to comprehend the business firms' interface with consumers and the consumer related regulatory and business environment.

## **Diploma in Computer Accounting & Taxation**

### **Programme Objective:**

The syllabus of the course has been designed to develop technical, professional and communication skill in the field of computer accounting and taxation of our B.Com students on preparation drafting, Worksheet presentation of books of accounts in computerized environment and Current Tax regime about GST. All it aims at developing soft skill of ours students and making them employable in the job market.

### **Programme Specific Objective:**

To build and sustain a comprehensive academic and professional knowledge through high quality education in computer accounting and taxation through information and communication technology and create a strong research and teaching environment that responds quickly to the challenges of the 21 century.

### **Course Objectives Diploma in Computer Accounting & Taxation**

#### **Semester - I**

**Paper 1: Computer :-**In MS Office (MS WORD, MS EXCEL, MS POWER PO) training course aims to provide new users with the essential skill needed to drafting, managing worksheet & presenting into graphics of company data.

**Paper 2: Accounting:** It provide the training and knowledge How the students can easily create and maintain books of accounts, create ledger, Bank reconciliation statement, debit and credit Note and how to analysis Final Accounts.

**Paper 3: Inventory :** It provide the knowledge of how can maintain inventory management from company data (purchase, sale, debit note, credit note & etc.)

#### **Semester – II**

**Paper 4: GST (Goods and Service Tax):** In GST training course aims to provide the depth knowledge and create skill for prepare books of accounts and maintain input and output documents, adjustment of ITC, e-payments and e- return filling.

### **Commerce(P.G.)**

#### **Programme Objectives**

1. To create highly diligent , committed and conscious postgraduate who are ready to set themselves free from socio-economic religious caste and gender prejudices and contribute positively towards socio-economic development of the neighborhood, locality, region and nation.
2. To provide high quality education to those who pursue a professional career and to enrich ones who are desirous of imparting education upto post graduation level .

#### **Programme Specific Objectives**

1. To provide quality higher level commerce education that would enhance competencies for employment, entrepreneurship and research.
2. To impart advance knowledge in the divers function of commerce and management.

## **Course Objectives**

### **SEMESTER 1**

#### **MC.1 ORGANISATIONAL THEORY AND BEHAVIOUR**

The objective is to develop a theoretical understanding among students about the structure and behavior of organization as it develops over time. The course will also make them capable of realizing their competitiveness of firms.

#### **MC.2 MANAGERIAL ECONOMICS**

The objective is to integrate the concept of economics with the tools management in order to analyze the decisions and plan to formulate optimal business decisions.

#### **MC.3 MANAGERIAL ACCOUNTING**

The objective is to utilize the data so formed from accounting process in management field to take wise decisions in favor of the organization.

#### **MC.4 STATISTICAL ANALYSIS**

The objective is to orient the learner to use the statistical tools in analyzing the functioning and the progress of the firm.

### **SEMESTER 2**

#### **MC.5 ENTREPRENEURSHIP DEVELOPMENT**

The purpose of the paper is to orient the learner towards entrepreneurship as a career option and enhance creative thinking skills and behavior for effectiveness at work.

### **MC.6 BUSINESS ENVIRONMENT**

When we study Business Environment, we somehow go through the entire environment that affects the functioning of business and some of them are out of the control of the management. So by understanding the factors affecting Business Environment, the learners and the management team can divert the affection caused in the favor of the firm.

### **MC.7 FINANCIAL MANAGEMENT AND POLICY**

The objective is to familiarize the students with the principles and practices of financial management.

### **MC.8 MARKETING MANAGEMENT**

The objective is to correlate the marketing elements with the management stuffs to better understand the dynamic market where the organization survives, functions and explore or degrade.

## **SEMESTER 3**

### **MC.9 STRATEGIC MANAGEMENT**

The objective is to learn the strategic formulation and its implementation in the organization with a view to serve the organization's interest.

### **MC.10 INTERNATIONAL BUSINESS AND TRADE**

The objective of the course is to expose students to the concept, importance and dynamics of international business and India's involvement with global business operations. The course also discuss on the theoretical foundations of international business to the extent these are relevant to understand the mechanics of global business operations and development.

### **MC.11 QUANTITATIVE TECHNIQUES FOR BUSINESS DECISION**

This course presents the various mathematical models, networking, probability, inventory models and simulations for managerial decisions. Thus, its objective is to enable the students to learn techniques of operations research and resources management and their application in decision making in the management.

#### **MC.12 PAPER 1 OF GROUP A ( FINANCE )**

##### **FINANCIAL MARKETS AND INSTITUTIONS**

The objectives of the course are to prepare students with a good understanding of the theoretical foundation of financial market and institutions, and to keep students updated on the latest discourse on practical issues and policies of the contemporary financial markets of India with an overview of the global financial markets and institutions.

#### **MC.12 PAPER 1 OF GROUP B (HUMAN RESOURCE)**

##### **HUMAN RESOURCE DEVELOPMENT**

HRD helps the learner to learn and understand the integrated use of training, organizational and career development efforts to improve individual, group, and organizational effectiveness.

### **SEMESTER 4**

#### **MC.13\_HUMAN RESOURCE MANAGEMENT**

To familiarize the student with the human resource management involving planning, placement and training, significance of performance appraisal, methods of compensation etc.

#### **MC.14 CORPORATE GOVERNANCE, ETHICS AND SOCIAL RESPONSIBILITY**

The objective of this paper is to determine the characteristics of the corporate governance structure, corporate dimension, geographical location and financial structure that might influence the dissemination of both codes of ethical conduct and politics of corporate social responsibility.

#### **MC. A 15 GROUP A (FINANCE)**

##### **PAPER 2 - SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT**

It aims at providing an in-depth knowledge of the theory and practice of portfolio management. Important theories, techniques, regulations and certain advancements in



theory of investment will be covered with an aim of helping the participants make sound investment decisions in the context of portfolio investment.

### **MC. B 15 GROUP B (HUMAN RESOURCE)**

#### **PAPER 2 - MANAGEMENT OF INDUSTRIAL RELATIONS**

The objective is to help the learner to learn and understand the key elements and other required stuffs to maintain and develop good and healthy relations between employees and employers or operatives and management.

### **MC.16 RESEARCH METHODOLOGY AND PROJECT WORK**

It aims at providing the general understanding of business research and the methods of business research. The course will impart learning about how to collect, analyze, present and interpret data

## **Sociology**

### **PROGRAMME OBJECTIVE - B.A. SOCIOLOGY HONOURS**

- After completing three years for Bachelors in Sociology (Honors') programme, students would gain a thorough grounding in the fundamentals of scientific thinking and analysis.
- The curriculum offers a number of specializations and offers practical exposures to enable students to pursue the quest of sociological understanding not only academically but also in practical application which in turn would equip them to critically analyse and find rational, scientific solutions to emerging, complex societal issues.
- The all-inclusive outlook of the course instills in the students perspectives that would enable them not only to qualify for diverse kinds of professions and occupational roles but also to do so successfully.

### **Programme Specific Objectives**

In drafting the syllabus an attempt was made to provide a comprehensive overview of the discipline of Sociology. Contextualizing the discipline against the historical space of Renaissance and Enlightenment, in short, in terms of modernity, the disciplinary ideas and concepts were mapped out through the writings and theories of the pioneering luminaries of the

discipline. In laying out the parameters, then, the interactional, relational and institutional dimensions of these modern, developmental and contemporary disciplinary discourses were spelt out. To create awareness of the applicability of these ideas in practical terms, the attempt was made to provide the students with tools and skills of research. The purpose is to inculcate among the students the spirit of enquiry that is so important for the analysis of everyday social life systems. Translated in terms of modules, the above ideas have been developed in the following way:

Core Discipline I: Introduction to Sociology I

Core Discipline II: Sociology of India I

Generic Elective–I (Interdisciplinary): Images and Realities of Indian Society

Core Discipline III: Introduction to Sociology II

Core Discipline IV: Sociology of India II

Generic Elective–II (Interdisciplinary): Sociology of Social Movements

Core Discipline V: Political Sociology

Core Discipline VI: Sociology of Religion

Core Discipline VII: Sociology of Gender

Generic Elective–III (Interdisciplinary): Rethinking Development

Ability Enhancement-I (Skill Based): Reading, Writing and Reasoning for Sociology

Core Discipline VIII: Economic Sociology

Core Discipline IX: Sociology of Kinship

Core Discipline X: Social Stratification

Generic Elective–IV (Interdisciplinary): Sociology of Media

Ability Enhancement-II (Skill Based): Techniques of Ethnographic Film Making

Core Discipline XI: Sociological Thinkers I

Core Discipline XII: Sociological Research Methods I

Discipline Specific Elective I: Urban Sociology

Discipline Specific Elective II: Agrarian Sociology

Core Discipline XIII: Sociological Thinkers II

Core Discipline XIV: Sociological Research Methods II

Discipline Specific Elective III: Sociology of Health and Medicine

Discipline Specific Elective IV: Indian Sociological Tradition

## **Course Objectives- B.A. SOCIOLOGY HONOURS**

### **Semester – I**

#### **Ability Enhancement Compulsory**

#### **Language**

#### **Course Objective**

To equip students to effectively acquire skills in reading, writing, comprehension and communication.

### **Core Paper – I: Introduction to Sociology I**

#### **Course Objective**

The mandate of this paper is to introduce the discipline to students from diverse training and capabilities. This paper is intended to introduce the students to a sociological way of thinking. It also provides a foundation for the other more detailed and specialized courses in sociology.

### **Core Paper - II: Sociology of India – I**

#### **Course Objective**

This paper introduces the processes and modes of construction of knowledge of India. Further, it aims to draw attention to the key concepts and institutions which are useful for the understanding of Indian society.

### **Generic Elective Paper – I: Indian Society: Images and Realities**

#### **Course Objective**

This course seeks to provide an interdisciplinary introduction to Indian society. It focuses on the stages in the formation of Indian society and its diverse and embedded institutions and processes, ranging from family to market to religion.

#### **Semester – II**

#### **Ability Enhancement Compulsory**

#### **Environmental Science**

#### **Course Objective**

To understand the importance of ecological balance for sustainable development, the impacts of developmental activities and mitigation measures.

### **Core Paper III: Introduction to Sociology II**

#### **Course Objective**

The course aims to provide a general introduction to sociological thought. The focus is on studying from the original texts to give the students a flavor of how over a period of time thinkers have conceptualized various aspects of society. This paper also provides a foundation for thinkers in the other papers.

### **Core Paper IV: Sociology of India – II**

#### **Course Objective**

This paper aims to draw attention to the variety of ideas and debates about India. Further, it critically engages with the multiple socio-political forces and ideologies which shape the terrain of the nation.

### **Generic Elective II: Sociology of Social Movements**

#### **Course Objective**

This course looks at social movements from a sociological perspective. It introduces the contexts and concepts of social movements and attempts to theoretically locate them through concrete case studies.

### **Semester – III**

### **Core Paper V: POLITICAL SOCIOLOGY**

#### **Course Objective**

This course introduces the students to some major theoretical debates and concepts in Political Sociology, while situating these within contemporary political issues. A key thrust of the paper

is towards developing a comparative understanding of political relationships through themes such as power, governance and state and society relationships.

### **Core Paper VI: Sociology of Religion**

#### **Course Objective**

The course lays primacy to the understanding of religious over individual religions. Drawing heavily from classical writings on the subject it reinforces importance of the positions developed in these texts. Implicitly numerous interconnections can be attempted between various themes, manifestly the overarching concern of the paper is to follow up the linkage between social and religious through different registers mentioned in the outline.

### **Core Paper VII: Sociology of Gender**

#### **Course Objective**

The course introduces gender as a critical sociological lens of enquiry in relation to various social fields. It also interrogates the categories of gender, sex, and sexuality.

### **Generic Elective III: Rethinking Development**

#### **Course Objective**

This paper examines the ideas of development from a sociological perspective. It introduces students to different approaches to understanding development and traces the trajectory of Indian experience with development from an interdisciplinary perspective.

### **Ability Enhancement - I (Skill Based): Reading, Writing and Reasoning for Sociology**

#### **Course Objective:**

Reading and writing academic prose is not the same as the performance of these activities in ordinary language, yet these are the skills that are never taught, except perhaps in tutorial systems (where they exist). Unlike most language courses that lean towards literature or functional skills, this is a crash course in survival techniques for developing literacy in

academic language. It consists of a graded series of reading and writing exercises using ‘real’ texts from the social sciences that will enable students to tackle text-related tasks with confidence. There is a conscious attempt to generate synergies by mirroring the reading and writing exercises.

#### **Semester – IV**

#### **Core Paper VIII: ECONOMIC SOCIOLOGY**

##### **Course Objective**

The course provides an understanding of the social and cultural bases of economic activity. It highlights the significance of sociological analysis for the study of economic processes in local and global contexts.

#### **Core Paper IX: SOCIOLOGY OF KINSHIP**

##### **Course Objective**

This course aims to introduce general principles of kinship and marriage by reference to key terms and theoretical statements substantiated by ethnographies. The course looks at the trajectories and new directions in kinship studies.

#### **Core Paper – X: Social Stratification**

##### **Course Objective**

This course introduces students to Sociological Study of Social Inequalities. It acquaints students with principal theoretical perspectives on and diverse forms of Social inequality in articulation with each other.

#### **GENERIC ELECTIVE Paper IV: SOCIOLOGY OF MEDIA**

##### **Course Objective**

The purpose of this paper is to introduce the students to certain major themes of outlining the interconnections between media and society. The focus specifically is on the transmission and reception of media content and thus the various sections in this paper study the production, control and reception of media and its representations.

#### **Ability Enhancement-II (Skill Based)**

##### **ETHNOGRAPHIC FILMMAKING**

##### **Course Objective**

This course focuses on doing sociology and social anthropology through forms other than the written; , in particular, the oral, aural, and the visual.. It introduces students to film techniques as a form and method of description and argument and enables a comparison between film and the written mode as ethnography. One concern that may be pursued is how the visually challenged encounter, experience and represent the field. The course will be conducted through group work enabling a learning process between the visually challenged and the non-visually challenged.



## **Semester – V**

### **Core Paper XI: Sociological Thinkers –I**

#### **Course Objective**

The course introduces the students to the classics in the making of the discipline of sociology through selected texts by the major thinkers.

### **Core Paper XII: Sociological Research Methods – I**

#### **Course Objective**

The course is a general introduction to the methodologies of sociological research methods. It will provide the student with some elementary knowledge of the complexities and philosophical underpinnings of research.

### **DISCIPLINE SPECIFIC ELECTIVE-I**

#### **Urban Sociology**

#### **Course Objective:**

This course provides an exposure to key theoretical perspectives for understanding urban life in historical and contemporary contexts. It also reflects on some concerns of urban living while narrating the subjective experiences of urban communities. With case studies from India and other parts of the world this course will help students relate to the complexities of urban living.

### **DISCIPLINE SPECIFIC ELECTIVE-II**

## **Agrarian Sociology**

### **Course Objective:**

This course explores the traditions of enquiry and key substantive issues in agrarian sociology. It is comparative in nature, but pays attention to Indian themes. It also introduces emerging global agrarian concerns.

## **Semester – VI**

### **Core Paper XIII: Sociological Thinkers II**

#### **Objective:**

To introduce students to post-classical sociological thinking through some original texts.

### **Core Paper XIV: RESEARCH METHODS II**

### **Objective:**

The course is an introductory course on how research is actually done. With emphasis on formulating research design, methods of data collection, and data analysis, it will provide students with some elementary knowledge on how to conduct both, quantitative and qualitative research.

## **DISCIPLINE SPECIFIC ELECTIVE-III**

### **Sociology of Health and Medicine**

#### **Objectives:**

The course introduces students to the sociology of health, illness and medical practice by highlighting the significance of socio-cultural dimensions in the construction of illness and medical knowledge. Theoretical perspectives examine the dynamics shaping these constructions. Negotiations of health and illness are explored through ethnographies.

## **DISCIPLINE SPECIFIC ELECTIVE-IV**

### **Indian Sociological Traditions**

#### **Course Objective:**

Traditions in Indian sociology can be traced with the formal teaching of sociology as a subject in Bombay university way back in 1914. While the existence of a “Sociology in India” and “Sociology of India” have been largely debated in terms of whether it has been influenced by western philosophy, is there a need of indigenization etc., sociologists in India have primarily been engaged with issues of tradition and modernity, caste, tribe and gender. This paper primarily provides perspectives of key Indian sociologists on some of these issues.

## **Biotechnology (H)**

**C1 (Biochemistry and Metabolism)**- The objective or mission of Biochemistry course in first semester is to help build a better future of students by providing aspiring molecular life scientists with the opportunity to obtain a world-class education by engaging in a program of instruction. The main objective of this course is to provide Critical thinking, Rigorous and effective application of the scientific method at real sense in human life , Quantitative analysis, Fundamental chemical, biological, and physical principles, Clear and accurate written and verbal communication, Intensive experiential learning activities. The Department is dedicated to maintaining a reputation as an outstanding department on the basis of the rigorous curriculum, the quality of research conducted with bachelors and master-level students, and the caliber of its graduates. The department values teaching and research as equal and essential components of the education of our students and seeks to integrate research with teaching at every possible opportunity in the curriculum.

**C2 (Cell Biology)**- To understand the structure and function of prokaryotic and eukaryotic cells, as whole entities and in terms of their subcellular processes. Cells are the building blocks of life. The students will understand the structure and function of basic components like macromolecules, membrane and organelles. They will also explore how these cellular components are used to generate and utilise energy in cells for maintaining organization, activity and growth of the cell.

**AECC1 (English/MIL Communication)** – To learn about language and literature which helps in scientific paper writing and self presentation.

**GE 1(Developmental Biology)** – To study the different stages of development of an organism. What are the different changes going on at molecular and biochemical level during the transition from one stage to another stage.

**C3 (Mammalian Physiology)**- To study physiology of mammals so that it can be applied to Animal Biotechnology or Medical Biotechnology for finding different physiological disorders and formulating its drugs.

**C4(Plant Anatomy and Physiology)**- To study about anatomy and physiology of plants sothat it can be applied to Plant Biotechnology for creating superior plant varieties.

**AECC2 (EVS)**- To create awareness about the environment so that it can be made clean, safe, green and pollution free.

**GE2 (Bioethics and Biosafety)** -To study the ethics of research and development in biotechnology and that safety procedures can be followed while working in biotechnology laboratory.

**C5 (Genetics)** - To study about genetic basis of inheritance of characters from one generation to next generation and how genes are controlling different characters. What are the sources of variations among individuals and progenies of the same generation and next generation.

**C6 (General Microbiology)**- Microorganisms include bacteria, viruses, protozoa, algae, and fungi that are too small to be observed with the naked eye. In Microbiology, the students will get the fundamental understanding of how the microorganism works that has come through the study of microorganisms. The various techniques for growth, isolation, maintenance and preservation of pure culture on culture media is an important aspect that is included practically as well. Microbiology also is an applied science, helping health and maintenance of the environment to ensure a clean, healthy food supply. The course also provides an insight into applications in the field of food microbiology, sewage and wastewater microbiology.

**C7 (Chemistry 1)** – To study the physical basis of interaction of different chemical molecules. How the atoms combine to form molecules in reversible and irreversible reaction and what are the changes in their energy level during different transformation.

**SEC1 (Enzymology)**- To study about structure and function of different enzymes at molecular level and how the activity of the enzyme can be modified by modifying its active site by changing one or more amino acids of the enzyme molecule.

**GE3 (Biotechnology and human welfare)** -To study applications of biotechnology in different fields like animals, plants and microorganisms to create genetically modified organisms for human welfare.

**C8 (Molecular Biology)**- Molecular biology, field of life science is concerned with studying the genomic molecular information flow that involves the basis of life. The central dogma of *molecular biology* where genetic material is transcribed into RNA and then translated into protein provides a good starting point for understanding the field. In *molecular biology*, we primarily work with nucleic acids that contain, preserve and propagate the complete information about the structure of molecules, cells and organisms on earth.

**C9 (Immunology)**- This course is designed for graduate students in fourth semester. The primary objective of this course is to help students develop the skills necessary for the critical analysis of contemporary literature on topics related to health and disease related to surrounding atmosphere. The course consists of two components: lecture and discussion. The lecture-based component is intended to review the basics of immunology and facilitate the conceptual understanding of selected topics related to human health. Discussions are led by the students and require their active participation while the instructors assume the role of observers. The learning objective of this exercise is to enable students to critically analyse background, hypothesis, experimental methods, results and discussion and implications. To achieve these goals, the course material has been prepared to help understand the ability of our immune system to defend against invading pathogens in a logical fashion.

**C10 (chemistry 2)** - To study about different organic and inorganic reactions, the structure and composition of different molecules and how then molecules can be used in different fields.

**SEC2 (Molecular Diagnostics)**- To study about different techniques used in medical and clinical diagnosis of different diseases and how results of the different tests can be analysed to find out different diseases.

**GE4 (Entrepreneurship development)** – How different small scale and medium scale biotechnology level industries can be started to promote self employment and employment generation. The technologies can be implemented for the benefits of the study.

**C11 (Bioprocess Technology)**- Bioprocess Technology is the sub-discipline within Biotechnology course of fifth semester students that combines living matter, in the form of organisms or enzymes, with nutrients under specific optimal conditions to make a desired product related to industrial production. It is responsible for translating discoveries of life sciences into practical and industrial products, processes and techniques that can serve the needs of society. Bioprocess Technology is thus the backbone of the biotechnology industry that translates the research and development to the industries. The stages involved in Bioprocess includes the preparation stage of raw materials, substrates and media, the conversion state, biocatalysts, downstream processing, volume production, purification and final product processing. Graduates from this program will have the knowledge and skills to understand the fundamental bioprocess research.

**C12 (Recombinant DNA Technology)** - How the desired genes can be introduced into the host cell (animal, plant, microorganism) to create recombinant and screening of recombinants from transformants and non –transformants. How different human proteins can be genetically engineered to create more potent proteins.

**DSE1( Dissertation)** – To visit different industries ,research institutes and universities for 2 months to get experienced with the recent advances and techniques in the field of biotechnology can prepare themselves for the upcoming challenges in this field.

**DSE2 (Biostatistics)**- To study about data collection, data organization, data representation and data analysis by finding out central tendencies and deviations from central tendencies of the data body.

**C13 (Bio Analytical Tools)**- To study about different Tools and Techniques used in advanced biological or Biotechnological research.

**C14 (Genomics and proteomics)**- To study about the relationship between genomic DNA and its encoded proteins. How the genetic sequences can be changed to change its encoded proteins. Proteomics is a powerful, rapidly advancing field that enables the analysis (involves the identification of protein structure and function) of a total set of proteins within cells or tissues. Since proteins are the functional units within cells, it helps in elucidation of pathological and drug developments at the molecular level. Genomics and metabolomics are the biological based system that are to be routinely applied throughout the drug-development process as well as after a product enters the market. Our overarching aim is to explore whether and in what ways proteomics constitutes, or is part of, a paradigm shift in the production of knowledge in the

biosciences. In pursuit of this aim we have the following objectives: To locate proteomics as a research field by mapping the locations and identities of key actants (people, artifacts, organizations), and monitoring their relations over time. To compare and contrast different visions of what proteomics is – its origins, boundaries and future trajectories - in particular in relation to protein biochemistry, genomics and systems biology. To analyse how the production of knowledge in proteomics is accomplished. To identify, experiment with and critically evaluate new research methods.

**DSE3 (Bioinformatics)**- Bioinformatics is an interdisciplinary field that develops methods and software tools to manage, retrieve, analyse and interpret biological data. The course provides an introduction about different biological database and various file formats. It also includes the data mining tools and the concept as well as algorithms of alignment of sequences and phylogenetic analysis.

**DSE4 (Plant Biotechnology)** - Application of biotechnology in plants to create transgenic plants for biotic resistance, abiotic resistance, higher yield and production of human proteins and used as biofactories.

